

a compound lens system producing an expanded version of the emitted array;

FIGs. 7(A-B) illustrate diagrams of emitted light signals passing through arrays of lenses. The array of lenses in 7(a) expands the diameter of light signals without changing their center spacing. The array of lenses in 7(b) expands the diameter and changes the direction of emitted light signals;

IN THE CLAIMS:

Please amend the claims as follows:

1.(Once amended) An optical sensing system for detecting target motion within a known environment, which comprises:

a vertical cavity surface emitting laser source with at least two laser signal emission apertures;

at least one detector operationally responsive to laser signals;

a microprocessor operationally coupled to said at least one detector; and

a motion analysis module in communication with said microprocessor for determining object motion;

wherein said laser source emits at least two laser signals into an environment, said at least one detector receives said at least two laser signals after said signals pass through said environment and interfere with a target. and

between said signals received by said detector and input from said motion analysis module regarding object motion determination

5.(Once amended) An optical sensing system for detecting target motion within a known environment, which comprises:

15 a laser with at least two laser signal emission apertures;
at least one detector operationally responsive to said laser source;
a microprocessor operationally coupled to said at least one detector;
a memory for storing characteristics of a monitored environment; and
a motion analysis module in communication with said microprocessor for determining object motion;

wherein said laser source emits at least two laser signals into an environment, said at least one detector receives said at least two laser signals after said signals pass through said environment and interfere with a target, and said microprocessor determines said target's motion based on differences between said signals received by said detector, reference to said memory and input from said motion analysis module regarding object motion determination.